(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 22 September 2005 (22.09.2005)

PCT

(10) International Publication Number WO 2005/087252 A1

A61K 38/17 (51) International Patent Classification⁷:

(21) International Application Number:

PCT/BR2005/000036

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0400284-9

18 March 2004 (18.03.2004) BR

- (71) Applicant (for all designated States except US): FUN-DAÇAO OSWALDO CRUZ-FIOCRUZ [BR/BR]; Avenida Brasil 4365, Manguinhos, CEP- 21045-900 Rio de Janeiro (BR).
- (72) Inventors; and

WO 2005/087252

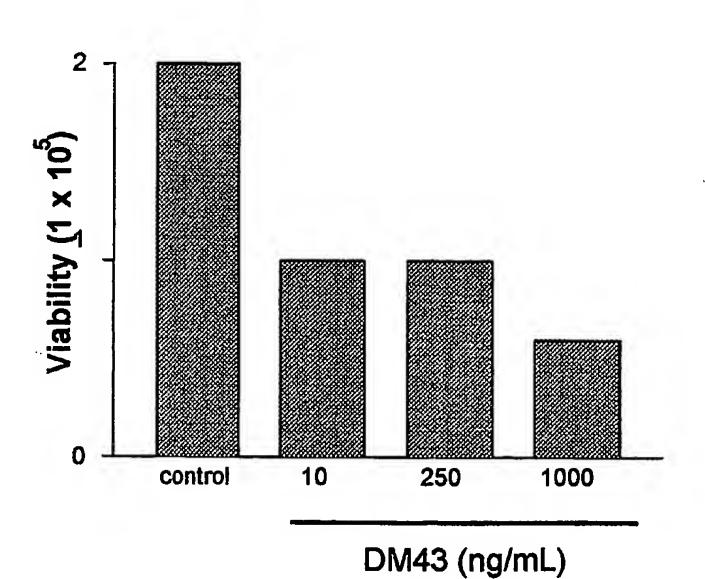
(75) Inventors/Applicants (for US only): JURGILAS, Patricia, Barbosa [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, RJ (BR). DE MEIS, Juliana [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, R.J. (BR). VALENTE, Richard, Hemmi [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, R.J. (BR). FERREIRA, Ana, Gisele da Costa Neves [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, R.J. (BR). DA CRUZ, Daniella, Areas, Mendes [BR/BR]; Av. Brasil 4365,

Manguinhos, Rio de Janeiro, R.J. (BR). DE OLIVEIRA, Désio, Aurélio, Farias [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, RJ (BR). SAVINO, Wilson [BR/BR]; Av. Brasil 4365 Manguinhos, Rio de Janeiro, R.J. (BR). DOMONT, Gilberto, Barbosa [BR/BR]; Rua Cel. Eurico de Souza Gomes filho 375/101, Jardim Oceânico, Rio de Janeiro, R.J. (BR). AGUILAR, Jonas, Enrique, Perales [BR/BR]; Av. Brasil 4365, Manguinhos, Rio de Janeiro, R.J. (BR).

- (74) Agent: DE ALMEIDA, Kátia, Fernandes; Behring, Almeida & Associados, Rua Beneditinos 16, 11° andar, Centro, 20081-050 Rio de Janeiro, RJ (BR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: USE OF DM43 AND ITS FRAGMENTS AS MATRIX METALLOPROTEINASES INHIBITOR



(57) Abstract: This invention is related to the use of DM43 protein as a metalloproteinases inhibitor. More specifically, this invention is related to the use of DM43 for the therapeutics of pathologies such as cancer and osteoarthritis, which are dependent on matrix metalloproteinases inhibition, based on the structure identity with SVMPs.

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.